Doc. Ref.: AN55

Appl. No. 09/525,615

PATENT ABSTRACTS OF JAPAN

(11)Publication number:

07-154344

(43)Date of publication of application: 16.06.1995

(51)Int.CI.

H04B 14/06

H03D 3/00

(21) Application number : **06-217629**

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(22)Date of filing:

411115 4 4 20

12.09.1994

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(30)Priority

Priority date : 10.09.1993 Priority number : 93 933989 Priority country: FI

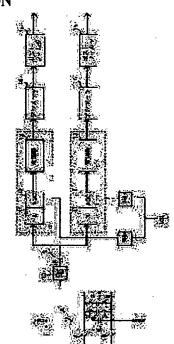
(54) RECEIVER FOR RECEIVING MODULATED CARRIER SIGNAL AND IQ MIXER/DEMODULATOR USING ITS RECEIVING CONSTITUTION

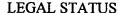
(57) Abstract:

PURPOSE: To reduce the space, cost, and power consumption of a receiver by down-converting carrier frequency signals by using a

temporally discrete sample extracting means.

CONSTITUTION: A receiver uses a sigma/delta analog/digital modulator having a wide dynamic input range and a mixer 11 in the modulator is constituted by using change-over capacitor switching elements 30-39. The elements 30-39 are driven by local oscillation signals LO1 of rectangular waves having a frequency which is equal or close to that of IF signals and give the mixer 11 a mixing function. An automatic gain controller 12 is also constituted of change- over switching elements. Consequently, the switch 31 functions as the mixer 11 and IF signals and their multiple signals are held at a fundamental frequency. Therefore, the need of a sine wave oscillator is eliminated.





[Date of request for examination]

17.08.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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